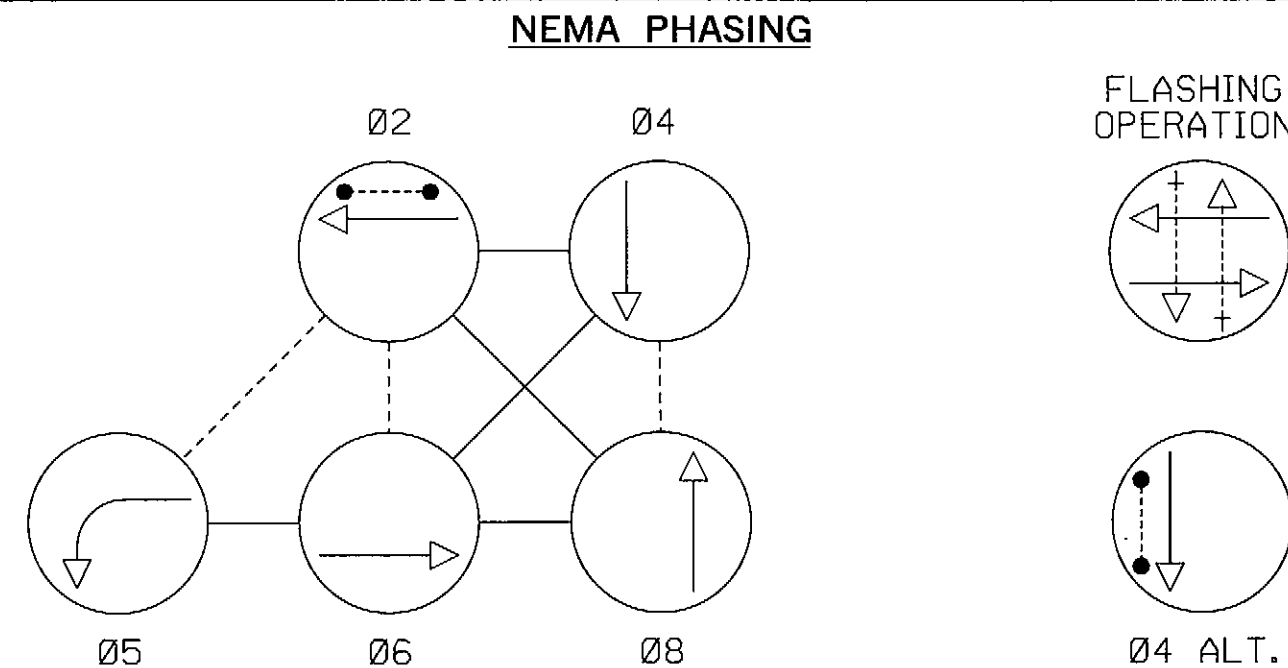
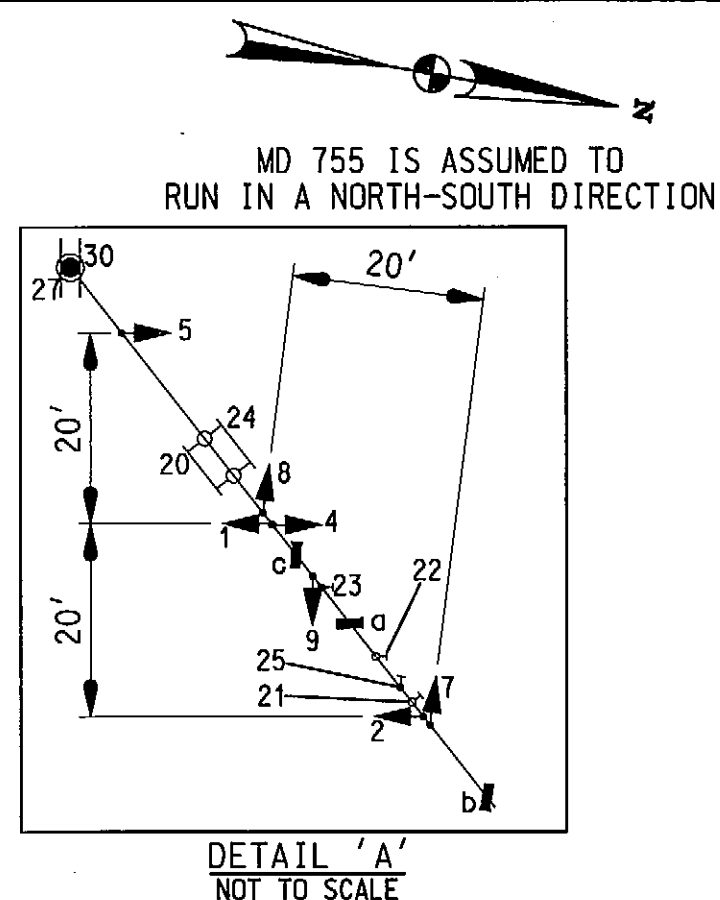


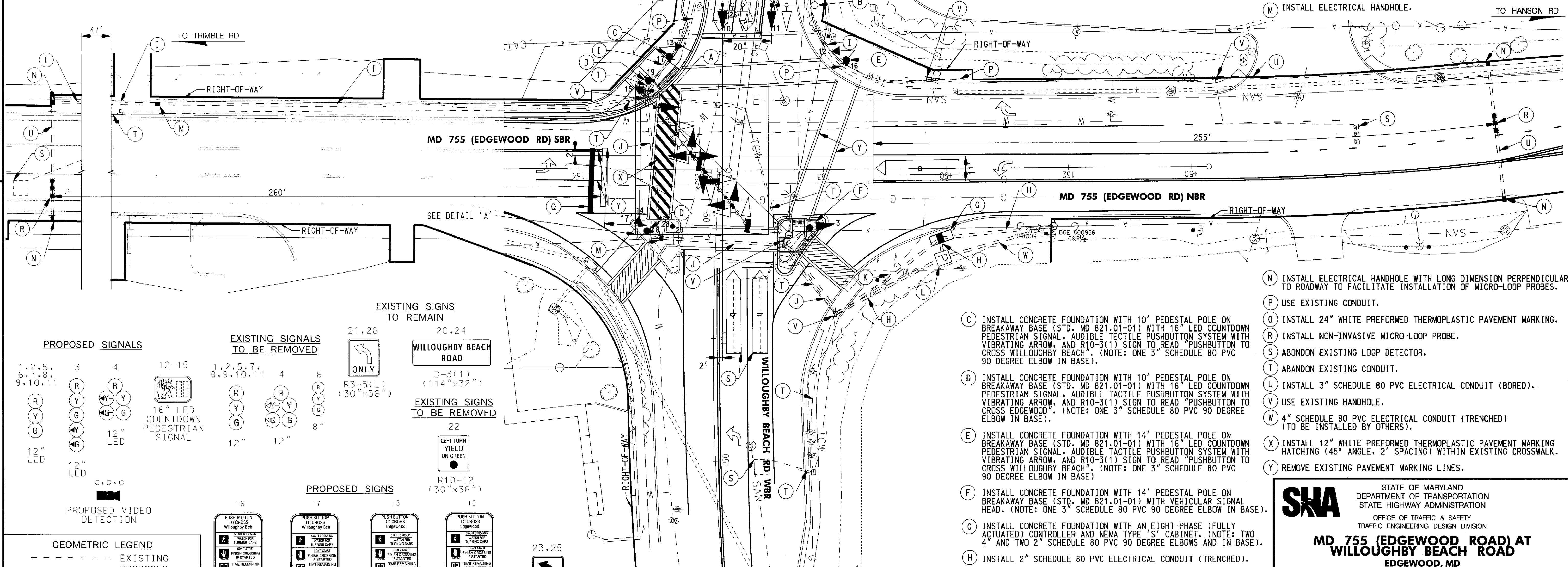
GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. SHA SIGNAL SHOP SHALL BE RESPONSIBLE FOR INSTALLING THE VIDEO INTERFACE EQUIPMENT AND TESTING APS EQUIPMENT. THE CONTRACTOR SHALL CONTACT ED RODENHIZER AT THE SIGNAL SHOP (410) 787-7650 TO COORDINATE THESE EFFORTS.
7. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60"x60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
8. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
9. LOCATION OF THE ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.08, 4E.10, FIG. 4E-3 AND 4E-4 AND NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
10. THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF THE POLE.



CONSTRUCTION DETAILS:

- (A) REMOVE EXISTING POLE-MOUNTED CABINET AND CONTROLLER, REPLACE VEHICULAR SIGNAL HEADS, INSTALL 16" LED COUNTDOWN PEDESTRIAN SIGNAL, AND INSTALL OVERHEAD SIGNS, AND NEW VIDEO DETECTION CAMERAS ON EXISTING MAST ARM.
- (B) REPLACE VEHICULAR SIGNAL HEADS ON EXISTING MAST ARM.
- (I) INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).
- (J) INSTALL 4" SCHEDULE 80 PVC ELECTRICAL CONDUIT (BORED/SLOTTED).
- (K) INSTALL TWO 4" SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).
- (L) INSTALL 100 AMP EMBEDDED METERED SERVICE PEDESTAL (NOTE: TWO 2" AND ONE 4" SCHEDULE 80 PVC 90 DEGREE ELBOWS IN BASE).
- (M) INSTALL ELECTRICAL HANDHOLE.



PROPOSED SIGNALS

1, 2, 5, 6, 7, 8, 9, 10, 11

3

4

12-15

16" LED COUNTDOWN PEDESTRIAN SIGNAL

12" LED

12" LED

a, b, c

PROPOSED VIDEO DETECTION

EXISTING SIGNALS TO BE REMOVED

1, 2, 5, 7, 8, 9, 10, 11

4

6

12"

12"

8"

EXISTING SIGNALS TO REMAIN

21, 26

20, 24

ONLY

R3-5(L) (30"x36")

D-3(1) (114"x32")

22

LEFT TURN YIELD ON GREEN

R10-12 (30"x36")

PROPOSED SIGNS

16

PUSH BUTTON TO CROSS WILLOUGHBY Bch

17

PUSH BUTTON TO CROSS WILLOUGHBY Bch

18

PUSH BUTTON TO CROSS EDGEWOOD

19

PUSH BUTTON TO CROSS EDGEWOOD

23, 25

ONLY

R3-5(L) (30"x36")

27, 29

S1-1 (36"x36")

W16-7pR (24"x12")

28, 30

S1-1 (36"x36")

W16-7pR (24"x12")

GEOMETRIC LEGEND

== == == == EXISTING

== == == == PROPOSED

UTILITY LEGEND

—(S)— SD STORM DRAIN

—G— G GAS MAIN

—W— W WATER MAIN

—S— S SEWER MAIN

—E— E ELECTRIC CABLES

—A— A AERIAL CABLES

—T— T TELEPHONE CABLES

—F— F FIBER-OPTIC

- (C) INSTALL CONCRETE FOUNDATION WITH 10' PEDESTAL POLE ON BREAKAWAY BASE (STD. MD 821.01-01) WITH 16" LED COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE TACTILE PUSHBUTTON SYSTEM WITH VIBRATING ARROW, AND R10-3(1) SIGN TO READ "PUSHBUTTON TO CROSS WILLOUGHBY BEACH". (NOTE: ONE 3" SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
- (D) INSTALL CONCRETE FOUNDATION WITH 10' PEDESTAL POLE ON BREAKAWAY BASE (STD. MD 821.01-01) WITH 16" LED COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE TACTILE PUSHBUTTON SYSTEM WITH VIBRATING ARROW, AND R10-3(1) SIGN TO READ "PUSHBUTTON TO CROSS EDGEWOOD". (NOTE: ONE 3" SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
- (E) INSTALL CONCRETE FOUNDATION WITH 14' PEDESTAL POLE ON BREAKAWAY BASE (STD. MD 821.01-01) WITH 16" LED COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE TACTILE PUSHBUTTON SYSTEM WITH VIBRATING ARROW, AND R10-3(1) SIGN TO READ "PUSHBUTTON TO CROSS WILLOUGHBY BEACH". (NOTE: ONE 3" SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
- (F) INSTALL CONCRETE FOUNDATION WITH 14' PEDESTAL POLE ON BREAKAWAY BASE (STD. MD 821.01-01) WITH VEHICULAR SIGNAL HEAD. (NOTE: ONE 3" SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
- (G) INSTALL CONCRETE FOUNDATION WITH AN EIGHT-PHASE (FULLY ACTUATED) CONTROLLER AND NEMA TYPE 'S' CABINET. (NOTE: TWO 4" AND TWO 2" SCHEDULE 80 PVC 90 DEGREE ELBOWS AND IN BASE).
- (H) INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).
- (N) INSTALL ELECTRICAL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO ROADWAY TO FACILITATE INSTALLATION OF MICRO-LOOP PROBES.
- (P) USE EXISTING CONDUIT.
- (Q) INSTALL 24" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING.
- (R) INSTALL NON-INVASIVE MICRO-LOOP PROBE.
- (S) ABANDON EXISTING LOOP DETECTOR.
- (T) ABANDON EXISTING CONDUIT.
- (U) INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT (BORED).
- (V) USE EXISTING HANDHOLE.
- (W) 4" SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED) (TO BE INSTALLED BY OTHERS).
- (X) INSTALL 12" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING HATCHING (45° ANGLE, 2" SPACING) WITHIN EXISTING CROSSWALK.
- (Y) REMOVE EXISTING PAVEMENT MARKING LINES.

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 755 (EDGEWOOD ROAD) AT WILLOUGHBY BEACH ROAD
EDGEWOOD, MD

REVISION 'E' CONSULTANT

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
110 West Road, Suite 300
Towson, Maryland 21204
410.494.9093 Tel / 410.825.5714 Fax
www.WallaceMontgomery.com A Limited Liability Partnership

APPROVALS

TEAM LEADER

ASST. DIV. CHIEF

DIVISION CHIEF

OFFICE DIRECTOR

REVISIONS

(E) 08-06-13 HAZ/45184 T.I.M.S. #L808
INSTALL APS AND VIDEO DETECTION

MJA HD 1/20 MUR ET

D 12-15-00
SPLIT MD 755 PHASING
BW 996M82

TMZ C
REPLACE DETECTION ON S.B.
MD 755 DUE TO GEO. IMP.

11-13-98

TMZ

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 7-24-78 CONTRACT NO. H 801-601-485

DESIGNED BY COUNTY HARFORD

DRAWN BY H. KILIAN LOGMILE 12075500.55

CHECKED BY D. ZAFIRIS T.I.M.S. NO. L808

F.A.P. NO. TOD NO.

TS NO. 1732E DRAWING NO. SG-01 OF 02 SHEET NO. 67 OF 94